Notice of Allowability	Application No.	Applicant(s)	
	10/676,175	RAO ET AL.	
	Examiner	Art Unit	
	Patrick J Connolly	2877	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	ve
1. This communication is responsive to <u>03 November 2004</u> .			
2. ☑ The allowed claim(s) is/are <u>1-152</u> .	·		
3. $igotimes$ The drawings filed on <u>30 September 2003</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the content of the component of the deposit attached Examiner's comment regarding REQUIREMENT	e been received. been received in Application No cuments have been received in this is of this communication to file a reply of this application. itted. Note the attached EXAMINER' ces reason(s) why the oath or declarated be submitted. Son's Patent Drawing Review (PTO s Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in sit of BIOLOGICAL MATERIAL in	complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached office action of the back) of the content of the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 98), 7. ☐ Examiner's Amendr	e	

DETAILED ACTION

Allowable Subject Matter

Claims 1-152 allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious a wavemeter including: a bandwidth calculator calculating bandwidth from the position of interference fringes in an interference fringe pattern incident on an optical detector, defining a D_{IO} and a D_{OD} , the respective distances between a pair of first fringe borders and between a pair of second fringe borders in the interference fringe pattern on an axis of the interference pattern, and according to the formula $\Delta\lambda = \lambda_0 \, [D_{OD}^2 - D_{IO}^2]/[8f^2 - D_O^2]$ where λ_0 is an assumed constant wavelength and $D_O = (D_{OO} - D_{ID})/2$, and f is the focal length, in combination with the rest of the limitations of claim 1.

As to claim 41, the prior art of record, taken alone or in combination, fails to disclose or render obvious a wavemeter including: a bandwidth calculator calculating bandwidth from the position of interference fringes in an interference fringe pattern incident on an optical detector, defining a D_{IO} and a D_{OD} , the respective distances between a pair of first fringe borders and between a pair of second fringe borders in the interference fringe pattern on an axis of the interference pattern, and according to the formula $\Delta\lambda = \lambda_0 \, [D_{OD}^2 - D_{IO}^2]/[8f^2 - D_O^2]$ where λ_0 is an assumed constant wavelength and $D_O = (D_{OO} - D_{ID})/2$, and f is the focal length, in combination with the rest of the limitations of claim 41.

As to claim 81, the prior art of record, taken alone or in combination, fails to disclose or render obvious a method of measuring bandwidth including: calculating bandwidth from the

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position of interference fringes in an interference fringe pattern incident on an optical detector, defining a D_{IO} and a D_{OD} , the respective distances between a pair of first fringe borders and between a pair of second fringe borders in the interference fringe pattern on an axis of the interference pattern, and according to the formula $\Delta\lambda = \lambda_0 \, [D_{OD}^2 - D_{IO}^2]/[8f^2 - D_O^2]$ where λ_0 is an assumed constant wavelength and $D_O = (D_{OO} - D_{ID})/2$, and f is the focal length, in combination with the rest of the limitations of claim 81.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am - 7:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

pjc PJL 11.12.2004